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App. J for use through 10/31/2002; OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number 10/039,586 Filing Date 1/4/02 First Named Inventor Steve Teig Group Art Unit 2661 Examiner Name
Sheet	1	of	1	Attorney Docket Number SPLX.P0048

U.S. PATENT DOCUMENTS						
Examiner* Initials	Cite. No.	U.S. Patent Document Number	U.S. Patent Document Kind Code* (If known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/BB/	1.	2001/ 0003843	A1	Scepanovic et al.	06-14-01	
	2.	4,615,011		Linsker	09-30-86	
	3.	4,673,966		Shimoyama	06-16-87	
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	7.	5,251,147		Finnerty	10-05-93	
	8.	5,281,151		Arima et al.	01-25-94	
	9.	5,360,948		Thornberg	11-01-94	
	10.	5,375,069		Satoh et al.	12-20-94	
	11.	5,532,934		Rostoker	07-02-96	
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	13.	5,633,479		Hirano	05-27-97	
	14.	5,634,093		Ashida et al.	05-27-97	
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	20.	5,757,656		Hershberger et al.	05-26-98	
	21.	5,777,360		Rostoker et al.	07-07-98	
	22.	5,811,863		Rostoker et al.	09-22-98	
	23.	5,822,214		Rostoker et al.	10-13-98	
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✓	25.	5,898,597		Scepanovic et al.	04-27-99	

Examiner Signature	/Brandon Bowers/	Date Considered	10/01/2007
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

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Substitute for form 1449A/PTO				Application Number	10/039,586
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	1/4/02
<i>(use as many sheets as necessary)</i>				First Named Inventor	Steve Telg
				Group Art Unit	2661
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	SPLX.P0048

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/BB/	26.	5,914,887		Scepanovic et al.	06-22-99	
	27.	5,973,376		Rostoker et al.	10-26-99	
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	29.	6,058,254		Scepanovic et al.	05-02-00	
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	36.	6,216,252	B1	Dangelo et al.	04-10-01	
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	40.	6,262,487	B1	Igarashi et al.	07-17-01	
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▼	51.	6,446,245	B1	Xing et al.	09-03-02	
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Sheet	3	of	3	Attorney Docket Number	SPLX.P0048

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/BB/	53.	6,516,455	B1	Teig et al.	02-04-03	
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FOREIGN PATENT DOCUMENTS							
Examiner's Initials	Cite No.	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ^a
		Office ^b	Number ^c				
/BB/	55.	JP	64-15947	Ouchi	01-19-89		
/BB/	56.	JP	04000677	Fujiwara et al.	01-1992		

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				Examiner Name	
Sheet	4	of	4	Attorney Docket Number	SPLX.P0048

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁸
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				Examiner Name	
Sheet	5	of	5	Attorney Docket Number	SPLX.P0048

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RELATED U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	U.S. Patent Document Number	Date of filing MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
/BB/	1.	2003/0079193	12-07-2001	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	2.	2003/0018947	12-07-2001	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	3.	2002/0147958	10-19-2001	Steven Teig et al.	Parent application per preliminary amendment dated 2/19/03.
	4.	2003/0064559	01-04-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	5.	2003/0063568	01-04-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	6.	2003/0101428 S/N 10/040,915	01-05-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	7.	Preliminary Amendment S/N 10/040,915	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.
	8.	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	9.	Preliminary Amendment S/N 10/040,948	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N 10/040,948.
	10.	2003/0043827 S/N 10/040,953	01-05-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	11.	Preliminary Amendment S/N 10/040,953	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0043827 does not accurately reflect the claims of S/N 10/040,953.
	12.	2003/0023943 S/N 10/040,954	01-05-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
↓	13.	Preliminary Amendment S/N 10/040,954	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0023943 does not accurately reflect the claims of S/N 10/040,954.

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RELATED U.S. PATENT DOCUMENTS

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	15.	Preliminary Amendment S/N 10/040,963	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0066042 does not accurately reflect the claims of S/N 10/040,963.
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	17.	Preliminary Amendment S/N 10/041,942	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0174412 does not accurately reflect the claims of S/N 10/041,942.
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	19.	Preliminary Amendment S/N 10/041,957	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088844 does not accurately reflect the claims of S/N 10/041,957.
	20.	2002/0199165 S/N 10/046,864	01-13-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
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	25.	Preliminary Amendment S/N 10/047,982	01-14-002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0056187 does not accurately reflect the claims of S/N 10/047,982
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↓	27.	2003/0066045	01-13-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.

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	30.	2002/0133798	12-06-2000	Steven Teig et al.	Application regarding related placement technology
	31.	2002/0100007	12-06-2200	Steven Teig et al.	Application regarding related placement technology.
	32.	2002/0073390 S/N 09/737,210	12-13-2000	Steven Teig et al.	Application regarding related placement technology.
	33.	Preliminary Amendment S/N 09/737,210	12-13-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0073390 does not accurately reflect the claims of S/N 09/737,210
	34.	S/N 09/737,220	12-13-2000	Steven Teig et al.	Application regarding related placement technology.
	35.	S/N 09/737,245	12-13-2000	Steven Teig et al.	Application regarding related placement technology.
	36.	S/N 09/739,460	12-15-2000	Steven Teig et al.	Application regarding related placement technology.
	37.	2002/0124231 S/N 09/739,580	12-15-2000	Steven Teig et al.	Application regarding related placement technology.
	38.	Preliminary Amendment S/N 09/739,580	12-15-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0124231 does not accurately reflect the claims of S/N 09/739,580.
	39.	S/N 09/739,589	12-15-2000	Steven Teig et al.	Application regarding related placement technology.
	40.	S/N 09/742,171	12-19-2000	Steven Teig et al.	Application regarding related placement technology.
	41.	2003/0121015 S/N 09/745,067	12-19-2000	Steven Teig et al.	Application regarding related placement technology.
↓	42.	Preliminary Amendment S/N 09/745,067	12-19-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0121015 does not accurately reflect the claims of S/N 09/745,067.

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Substitute for form 1449A/PTO				Application Number	10/039,586
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	1/4/02
(use as many sheets as necessary)				First Named Inventor	Steven Teig
				Group Art Unit	2661
				Examiner Name	
Sheet	4	of	4	Attorney Docket Number	SPLX.P0048

RELATED U.S. PATENT DOCUMENTS					
/BB/	43.	2002/0069397	01-13-2002	Steven Teig et al.	Application regarding related placement technology.
	44.	2002/0170027	02-20-2002	Steven Teig et al.	Application regarding related placement technology.
	45.	2002/0157075	02-20-2002	Steven Teig et al.	Application regarding related placement technology.
	46.	2003/0088841 S/N 10/329,241	12-23-2002	Steven Teig et al.	Application regarding related placement technology.
↓	47.	Preliminary Amendment S/N 10/329,241	12-23-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number 10/039,586
Sheet	1	of	7	Filing Date 1/4/02
Examiner Name				First Named Inventor Steve Teig
Group Art Unit				2661
Attorney Docket Number				Examiner Name SPLX.P0048

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (If known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
/BB/	1.	2001/0009 031	A1	07-19-2001	Nilta et al.
	2.	2002/0182 844	A1	12-05-2002	Igarashi et al.
	3.	2003/0005 399	A1	01-02-2003	Igarashi et al.
	4.	4,593,363		06-03-1986	Burstein et al.
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	7.	5,587,923		12-24-1996	Wang
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	19.	6,070,108		05-30-2000	Andreev et al.
	20.	6,128,767		10-03-2000	Chapman

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	1/4/02
(use as many sheets as necessary)				First Named Inventor	Steve Telg
				Group Art Unit	2661
				Examiner Name	
Sheet	2	of	7	Attorney Docket Number	SPLX.P0048

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	22.	6,209,123	B1	03-27-2001	Maziasz et al.
	23.	6,219,832	B1	04-17-2001	Buzbee
	24.	6,226,560	B1	05-01-2001	Hama et al.
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	39.	6,480,991	B1	11-12-2002	Cho et al.
	40.	6,490,713	B2	12-03-2002	Matsumoto
	41.	6,519,751	B2	02-11-2003	Sriram et al.
✓	42.	6,543,043	B1	04-01-2003	Wang et al.
	43.	6,546,540	B1	04-08-2003	Igarashi et al.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/039,586
				Filing Date	1/4/02
				First Named Inventor	Steve Teig
				Group Art Unit	2661
				Examiner Name	
Sheet	3	of	7	Attorney Docket Number	SPLX.P0048

U.S. PATENT DOCUMENTS					
/BB/	44.	6,557,145	B2	04-29-2003	Boyle et al.
/BB/	45.	6,567,967	B2	05-20-2003	Greidinger et al.

FOREIGN PATENT DOCUMENTS							
Examiner* Initials	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ³	Number ⁴	Kind Code (If known)			
/BB/	46.	JP	411296560	A	Matsumoto et al.	10-29-1999	with English translation of Abstract;
	47.	JP	2000-82743	A	Igarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
	48.	JP	H03-173471	A	Tawada et al.	07-26-1991	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
	49.	JP	H05-243379	A	Masako Kubota	09-21-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
↓	50.	JP	H05-102305	A	Akihiro Sato	04-23-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓

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				Filing Date	1/4/02
				First Named Inventor	Steve Teig
				Group Art Unit	2661
				Examiner Name	
Sheet	4	of	7	Attorney Docket Number	SPLX.P0048

FOREIGN PATENT DOCUMENTS							
							application.
/BB/	51.	JP	H07-86407	A	Shinpei Miura	03-31-1995	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
/BB/	52.	JP	H09-162279	A	Masaaki Yoshida	06-20-1997	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓

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				Filing Date	1/4/02
				First Named Inventor	Steve Teig
				Group Art Unit	2661
				Examiner Name	
Sheet	5	of	7	Attorney Docket Number	SPLX.P0048

FOREIGN PATENT DOCUMENTS

NON PATENT LITERATURE DOCUMENTS

Examiner* Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	²
/BB/	53.	Ahuja, R. et al., Faster Algorithms for the Shortest Path Problem, Journal of the Association for Computing Machinery, vol. 37, No. 2, April 1990, pp. 213-223.	
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	55.	Brambilla, A. et al., Statistical Method for the Analysis of Interconnects Delay in Submicrometer Layouts, IEEE, 8/2001, pp. 957-966.	
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	57.	Chen, H. et al., Physical Planning of On-Chip Interconnect Architectures, 2002, IEEE, International Conference, pp. 30-35.	
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(use as many sheets as necessary)				First Named Inventor	Steve Teig
				Group Art Unit	2661
				Examiner Name	
Sheet	6	of	7	Attorney Docket Number	SPLX.P0048

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/BB/	66.	Hu, J. et al., A Timing-Constrained Algorithm for Simultaneous Global Routing of Multiple Nets, IEEE/ACM International Conference on Computer Aided Design, ICCAD – 2000. IEEE/ACM Digest of Technical Papers (CAT. NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA, USA, 5-9 Nov. 2000, pp.99-103.	
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				First Named Inventor	Steve Teig
				Group Art Unit	2661
				Examiner Name	
Sheet	7	of	7	Attorney Docket Number	SPLX.P0048

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